



SEQUENCE LISTING

<110> NIKOLICH, MIKELJON
HOOVER, DAVID

<120> IMMUNOGENIC COMPOSITIONS INCLUDING ROUGH PHENOTYPE BRUCELLA HOST STRAINS
AND COMPLEMENTATION DNA FRAGMENTS

<130> ARMY 176

<140> 10/733,691

<141> 2003-12-11

<150> US 60/402,164

<151> 2002-12-12

150> US 60/533,016

<151> 2003-09-15

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<212> DNA

<213> Brucella melitensis

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<212> PRT

<213> Brucella melitensis

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Val	Thr	Lys	Asn	Ile	Val	Arg	Met	Leu	Leu
				25				30	
Lys	Gly	Ser	Gln	Asn	Tyr	Gly	Glu	Gln	Cys
				35				40	
Gln	Val	Arg	Leu	Ala	Val	Arg	Ala	Asp	Thr

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Tyr Asp Ile Gly	Glu Glu Phe Arg Asp	Leu
	55	60
Ile Asp Asn Gly	Val Glu Val Arg Glu	Ile
	65	70
Ser Phe Lys Glu	Val Pro Pro Glu Asp	Val
	75	80
Asn Asn Ala Asn	Tyr Phe Gln Gly Arg	Asn
	85	90
Ile Asp Leu Gln	Ser Arg Thr Tyr Trp	Leu
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Met Glu Asp Gly	Gln Asn Asn Cys Ala	Asp
	105	110
Ser Asp Leu Trp	Leu Val Val Ser Tyr	Ser
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Val Glu Tyr Pro	Ile Ala Pro Ile Arg	Pro
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Thr Leu Ile Phe	Ala Thr Asp Phe Ile	Gln
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Arg Tyr Val Pro	Asp Ile Ile Trp Pro	Pro
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Arg Pro Gly Glu	Gly Asp Ala Glu Ala	Leu
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Ala Phe Leu Arg	Gln Ser Asp Gly Val	Leu
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Ala Thr Thr Pro	His Thr Arg Leu Asp	Ala
	175	180
Ile Ser Tyr Ala	Gly Leu Pro Ala Ser	Lys
	185	190
Val Tyr Leu Ala	Pro Met Glu Phe Asp	Pro
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Thr Phe Leu Asp	Arg Tyr Arg Ser Val	Ser
	205	210
Lys Val Lys Glu	Pro Tyr Phe Leu Trp	Pro
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Thr Asn Pro Asn	Ala His Lys Asn His	Ala
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Lys Ala Phe Gln	Ala Leu Asp Leu Tyr	Tyr
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Gly Lys Leu Lys	Gly Lys Ile Lys Thr	Lys
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Ile Val Gly Val	Ser Ser Val Arg Met	Asp
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Pro Ser His Arg	Trp Gln Ala Lys Tyr	Glu
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Asn Lys Ala Tyr	Val Lys Ser Val Arg	Glu
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Ile Val Ala Gly	Leu Asp Asn Leu Lys	Ser
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Asn Val Glu Phe	Ala Gly Glu Val Ala	Asp
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Lys Glu Tyr Ala	Glu Leu Leu Ala Ser	Ala
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Cys Phe Leu Trp	His Pro Thr Leu Ala	Asp
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Asn Gly Thr Phe	Ala Ala Val Glu Ala	Ala

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Tyr Pro Gln Met Arg Tyr Ile Ser Asn Arg			
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Phe Glu Ile Pro Met Gln Tyr Phe Asn Ala			
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Arg Ser Val Lys Glu Met Ala Ser Ala Leu			
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Lys Gln Met Glu Glu Thr Pro Ile Asp Val			
	375		380
Gly Leu Leu Pro Ser Arg glu Thr Leu Ser			
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Leu His Ser Trp Glu Ala His Ala Ser Glu			
	395		400
Tyr Trp Asp Val Ile Val Arg Ala Ala Ala			
	405		410